

FEBRUARY 9, 2023

LONG-TERM MONITORING AND MAINTENANCE

LOWER 8.3 MILES OF THE PASSAIC RIVER

Diamond Alkali Superfund Site Operable Unit 2 (OU2)



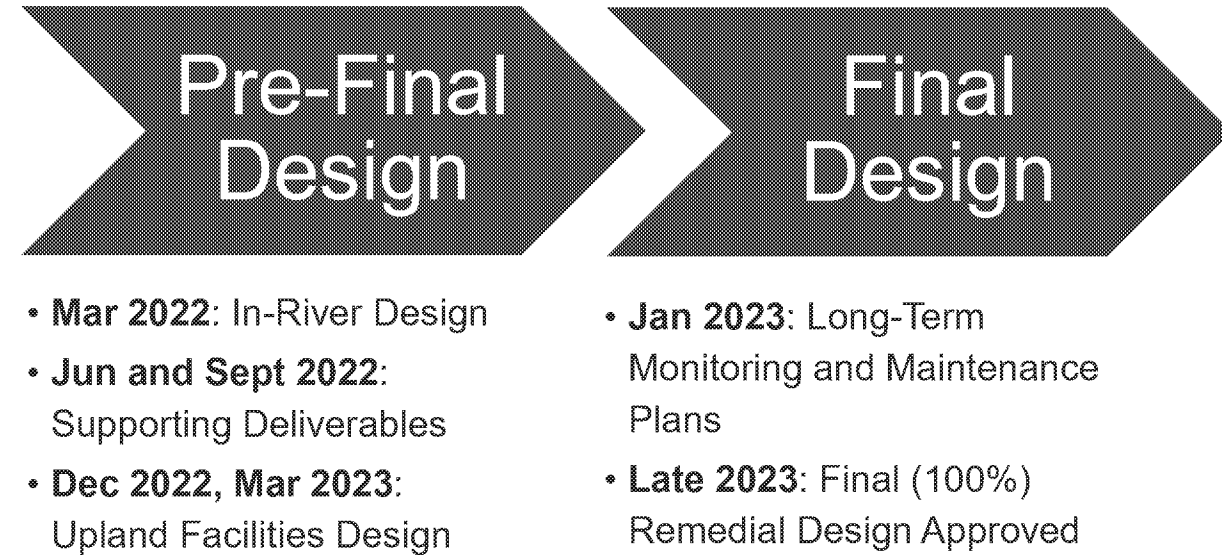
AGENDA

- Remedial Design Update
- Long-Term Monitoring and Maintenance Plans
 - Site-Wide Monitoring Plan (SWMP)
 - Operations and Maintenance Plan (OMP)
- Institutional Controls

REMEDIAL DESIGN UPDATE

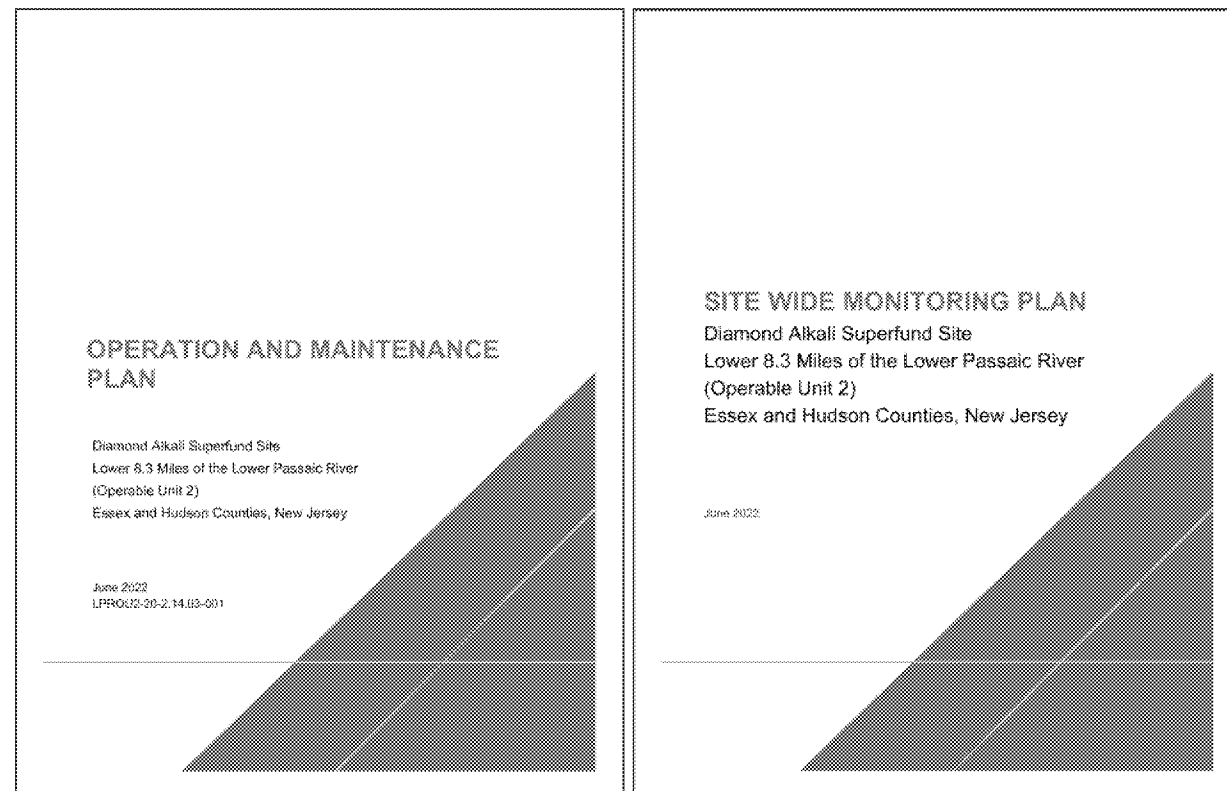
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- ☒ Project Management Plan
- ☒ Pre-Design Investigation Work Plan
- ☒ Remedial Design Work Plan
- ☒ Site Selection and Evaluation Work Plan
- ☒ Site Selection and Evaluation Report
- ☒ Preliminary (30%) Remedial Design
- ☒ Intermediate (60%) Remedial Design
- ☒ Pre-Design Investigation Evaluation Report
- ☒ Pre-Final (95%) Remedial Design
 - ☒ In-River 95% Design
 - ☒ Upland Facilities 95% Design
 - ☒ Supporting Deliverables
- ☐ Final (100%) Remedial Design



LONG-TERM MONITORING AND MAINTENANCE PLANS

- **Site Wide Monitoring Plan (SWMP):**
Monitoring activities to evaluate the performance of the remedy
- **Operation and Maintenance Plan (OMP):**
Procedures for implementing cap repairs if needed based on data collected under the SWMP



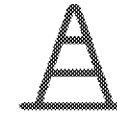
SITE WIDE MONITORING PLAN

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Goals



Obtain data and monitor extent of contaminants of concern before, during, and after remedial action implementation



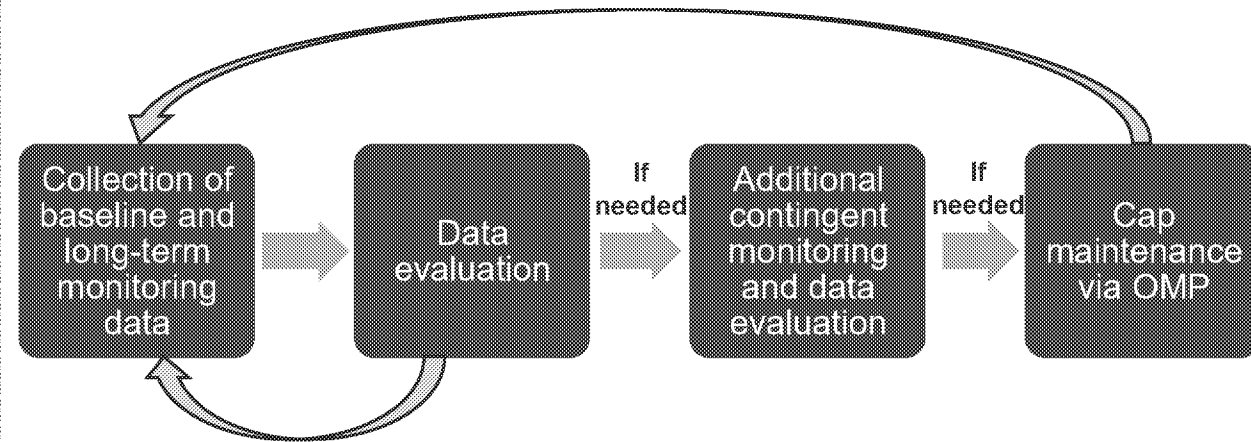
Define long-term monitoring activities to ensure remedy effectiveness and progress towards the remedial goals



Guiding document for post-construction long-term monitoring of the capping remedy

SITE WIDE MONITORING PLAN OVERVIEW AND FRAMEWORK

- Long-term monitoring of cap stability, surface sediment, biota, and surface water
- Data evaluation frameworks for interpreting long-term monitoring results
- Additional contingent monitoring to be performed as needed
- Provide information to identify areas that require cap repairs to be addressed under the OMP



LONG-TERM MONITORING SCHEDULE AND REPORTING

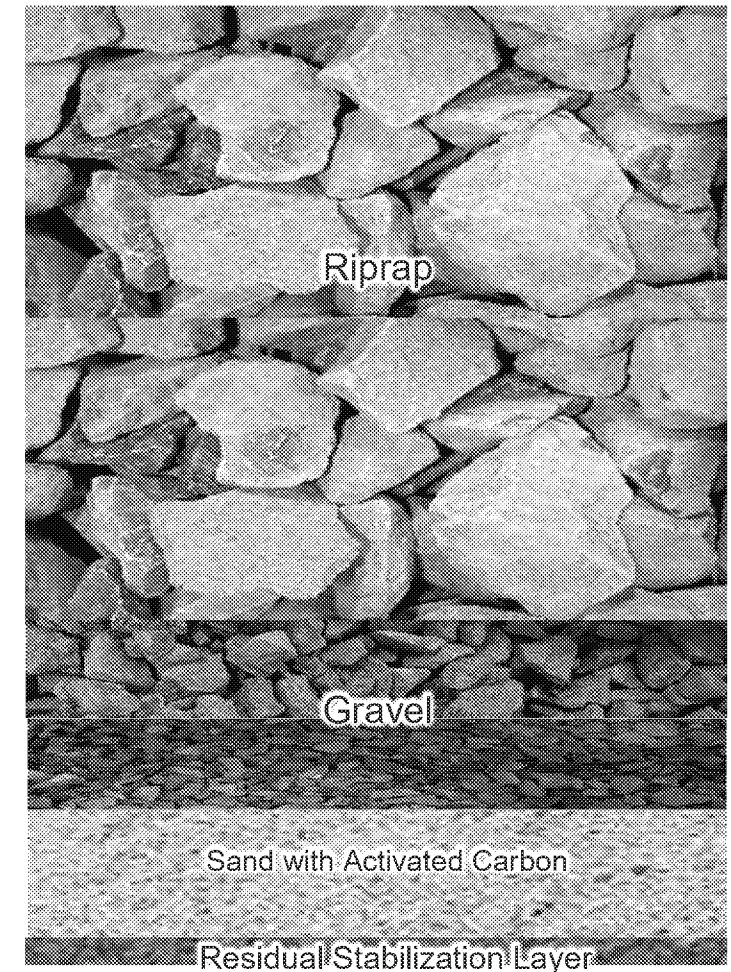
- Annual monitoring events planned for first 10 years following remedy completion
- Future monitoring to continue at 5-year intervals following the first 10 years of long-term monitoring
- Additional monitoring after large storm events
- Monitoring Reports will be submitted to USEPA to present data evaluation and recommendations
- USEPA will evaluate remedy effectiveness as part of five-year reviews



Example: Sediment sampling

OPERATIONS AND MAINTENANCE PLAN REQUIREMENTS – CORRECTIVE MEASURES

- Describes procedures to be implemented if performance of the cap is compromised in certain areas
- Detailed step-wise process for developing plans to address these areas
- May be needed due to:
 - Erosion
 - Damage to the cap due to construction or other impacts
- Completed under USEPA oversight



OPERATIONS AND MAINTENANCE PLAN REQUIREMENTS – THIRD-PARTY ACTIVITIES

- Describes procedures to be conducted by third parties if construction projects or emergency repairs to existing structures may impact the cap, such as:
 - Installation of mooring structures (minimal disturbance)
 - Construction of a new berthing area (extensive disturbance)
- Completed under USEPA oversight.



INSTITUTIONAL CONTROLS SUMMARY

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- Administrative and communication measures to protect the cap from human activity.
 - Property-based controls (tidelands instruments, deed restrictions) for intrusive activities.
 - Navigation-based controls (regulated navigation area) for vessel speed, vessel clearance, no anchoring, etc.
 - Additional aids to navigation (signage, buoys, etc.)
- Include fish and crab consumption controls
 - Enhanced signage and print materials
 - Digital access to information
- Institutional controls being refined as part of final design process.



Prohibition Sign Observed at OU2



Clay Street Bridge Restricted Area Signage

QUESTIONS?

